CLAIMS

	1.	Α	dye-sensitized	photoelectric	transfer
device	CO	mpi	rising:		

5

a semiconductor layer containing titania nanotubes; and

a sensitizing dye retained by the titania nanotubes.

10

2. The dye-sensitized photoelectric transfer device according to claim 1 wherein the sensitizing dye has no acidic substituents.

3. The dye-sensitized photoelectric transfer device according to claim 1 wherein the titania nanotubes retain at least two kinds of sensitizing dyes.

15

4. The dye-sensitized photoelectric transfer device according to claim 1 or 2 wherein particles of the sensitizing dye do not associate with each other.

20

5. The dye-sensitized photoelectric transfer device according to claim 1 wherein each of the titania nanotubes has a diameter from 5 nm to 80 nm.

25

6. The dye-sensitized photoelectric transfer device according to claim 1 wherein the titania nanotubes are in form of an anatase type crystal.

7. The dye-sensitized photoelectric transfer device according to claim 1 wherein the semiconductor layer and an electrolyte layer are provided between a

pair of opposed electrodes.

5

10

15

20

- 8. The dye-sensitized photoelectric transfer device according to claim 1 wherein the semiconductor layer and an electrolyte layer are provided between a transparent conductive substrate and a conductive substrate as the counter electrode of the transparent conductive substrate to generate electric energy between the transparent conductive substrate and the conductive substrate by photoelectric transfer.
- 9. The dye-sensitized photoelectric transfer device according to claim 8 wherein the transparent conductive substrate is a transparent substrate having a transparent conductive film.
- 10. The dye-sensitized photoelectric transfer device according to claim 8 or 9, which is configured as a dye-sensitized solar cell.
- 11. A method of manufacturing a dye-sensitized photoelectric transfer device, comprising:

using a semiconductor layer containing titania nanotubes: and

having a sensitizing dye retained by the titania nanotubes.